Sears

KENMORE

INSTRUCTIONS



ZIG-ZAG SEWING MACHINE

Manualsoncd.com

Sears, Roebuck and Co.

This booklet has been written for you, to help you use and enjoy fully your KENMORE zigzag Dear Homemaker:

In order to obtain the maximum efficiency this machine is capable of we urge that you sewing machine. read this booklet before using it for the

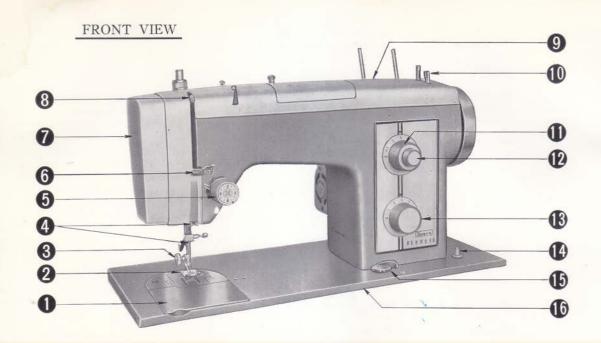
We feel this Kenmore zigzag sewing machine is we reel this kennore right we are happy to offer help with any questions you may have orier neip with any questions you may nave regarding the machine. When writing, please mention the number shown on the nomenclature plate of your machine. (See page 2).

Sincerely, Jean Shaw, Director Home Economics Laboratory Department 817 Sears, Roebuck and Co. Chicago 7, Illinois

TABLE OF CONTENTS

Adjusting for Good Stitches38
Adjusting Pressure of Presser Foot 10
Adjusting Tensions12-13
Applique24
Basting15
Buttonholes22-23
Buttons21
Changing Attachment Foot11
Cleaning and Oiling31-33
Connecting Machine 4
Decorative Stitching17-19
Double Needle28-29
Dual Purpose Needle Plate · · · · · 11
Fastening a Seam15
Feed Dog Control10
Gathering24
Hems - Blind Stitch Hem26-27
Identification-Head Parts2-3
Inserting Bobbin into Bobbin Case 8
Inserting and Removing Material14
Inserting Pattern Disc16
Installing Machine Head 4
Mending20

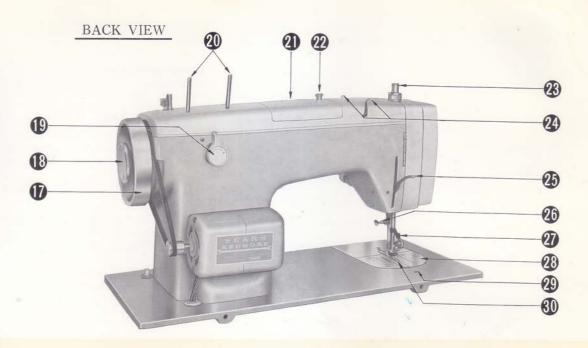
Needle and Thread Table Needle Size
Overcasting2
Parts List36-3
Picking up Bobbin Thread1
Placement of Needle
Removing Bobbin Case from Shuttle
Replacement of Belt3
Reverse Stitching1
Setting Stitch Length1
Setting Stitch Width1
Sewing Light
Sewing on Lace2
Sewing on Plastic Films3
Sewing on Stretch Fabrics2
Sewing with Reverse Pattern Disc1
Straight or Three-Cornered Tear2
Straight Stitching
Synthetics3
Threading Upper Machine
Turning a Corner
What to Do34-3;
Winding the Bobbin
Writing and Monogramming2



- 1. Hand Hole Cover Plate
- 2. Presser Foot
- 3. Presser Foot Thumb Screw
- 4. Thread Guides
- 5. Thread Tension Assembly

- 6. Thread Guide
- 7. Face Cover Plate
- 8. Thread Take-up
- 9. Arm Cover Plate
- 10. Bobbin Winder Mechanism

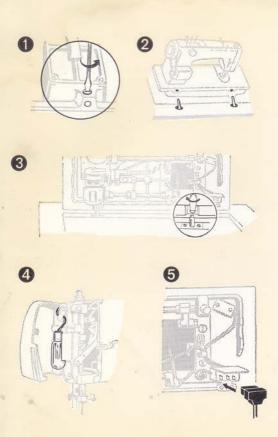
- 11. Stitch Length Control Knob
- 12. Reverse Stitch Push Button
- 13. Stitch Width Control Knob
- 14. Light Switch
- 15. Feed Dog Control Knob
- 16. Nomenclature Plate



- 17. Hand Wheel
- 18. Clutch Knob
- 19. Reverse Stitch Length Control
- 20. Upper Thread Spool Pins

- 21. Pattern Disc Shaft Cover
- 22. Bobbin Winder Tension Disc
- 23. Presser Foot Knob
- 24. Upper Thread Guides25. Presser Foot Lever

- 26. Needle Clamp Screw
- 27. Thread Cutter
- 28. Needle Plate
- Guide Pin Hole for Buttonhole Attachment
- 30. Feed Dog



INSTALLING MACHINE HEAD IN PORTABLE AND CABINET

Loosen the two hinge screws under holes in the rear edge of the machine bed (1). Raise hinge pins in the cabinet cutout (2). Slip machine head onto the pins and tighten hinge screws securely (3). Lower machine head to front flap.

Screw spool pins in place. Lay the plastic discs over the spool pins. Discs and pins are packed in the accessory box.

SEWING LIGHT

The sewing light is located inside the face cover plate as shown. It may be turned on or off by pushing the light switch. In order to operate the machine the switch must be on.

To remove bulb, turn light switch off, open the face cover plate by swinging it open, push bulb in slightly, turn bulb clockwise, and remove from socket. To replace push in new bulb and turn counter clockwise. See illustration 4.

CONNECTING MACHINE

Push the plug onto three-prong connector under the bed plate. Plug machine cord into any 110-120V wall outlet. See illustration 5.

NEEDLE AND THREAD TABLE

THREAD SIZE	NEEDLE	FABRIC Sheer cottons, silks, and synthetics Fine laces		
Cotton 60-100 Synthetic Silk A	11			
Cotton 60-80 Mercerized 50 Synthetic Silk A	14	Medium weight cottons Medium weight silks Medium weight synthetics Light weight woolens		
Cotton 40-60 Mercerized 50 Mercerized heavy duty	16	Heavy weight cottons Medium to heavy weight woolens Heavy drapery fabrics		
Cotton 30-50 Mercerized heavy duty	18	Heaviest cottons as for men's work clothes Heaviest woolen coating		

NEEDLE SIZE

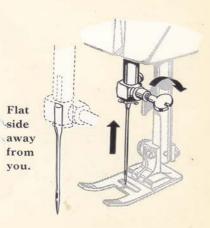
Use KENMORE 6702 needles. The size of the needle should conform to the size of the thread and both should be suitable to the material. The same size thread should be used in the bobbin as on the upper part of the machine for ordinary sewing. Never use a bent needle nor one with a blunt point.



This is the exact length of the needle to be used in your machine. Comparison with this illustration will determine whether the needle you have is the correct one for your machine.

PLACEMENT OF NEEDLE

Raise needle bar to its highest position by turning hand wheel toward you. Loosen needle clamp screw. Hold the needle with flat side away from you. Slip the needle as far as it will go into the needle clamp, and tighten the needle clamp screw.



Needle at its highest position.



Pull out latch.



Pull bobbin case straight out.

REMOVING BOBBIN CASE FROM SHUTTLE



WINDING THE BOBBIN



Place thread on spool post. Draw thread as shown.



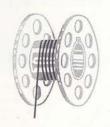
1

Release clutch by turning clutch knob toward you. Start machine.



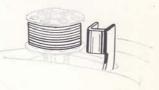
2

Wind thread around bobbin a few times.



6

When bobbin is full, winding mechanism stops.



8

Place bobbin onto bobbin winder shaft. Push bobbin winder latch until it clicks.



6

Tighten clutch knob and remove bobbin.

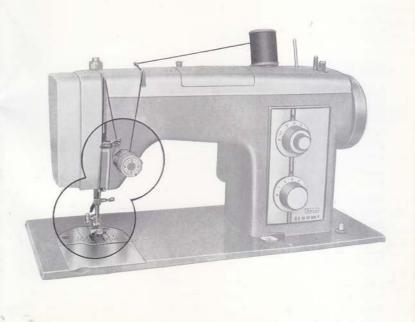


INSERTING BOBBIN INTO BOBBIN CASE CASE INTO SHUTTLE

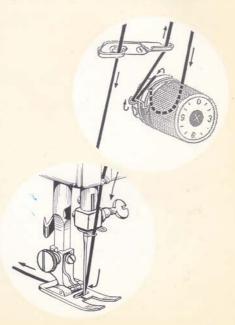
- 1 Guide bobbin onto center pin of bobbin case.
- Pull thread through slot.
- 3 Pull thread under tension spring.
- 4 Holding latch, position case into shuttle, release latch.



THREADING UPPER MACHINE



Place thread as illustrated between discs of the Thread Tension Assembly. Prevent the spool of thread from turning and by holding the end of the thread pull spring wire loop up and past the top hook until the thread can be slipped into the hook. When thread tension is released, the spring wire loop will return to position as shown with the thread in proper place. Release spool of thread and continue to thread machine as illustrated.





PICKING UP BOBBIN THREAD

Raise presser foot lever.

Hold needle thread loosely in left hand and rotate hand wheel toward you one complete turn.

Bring bobbin thread up by pulling upper thread.

(See illustration).

Place threads back under presser foot.

ADJUSTING THE PRESSURE OF THE PRESSER FOOT

Push down outer ring of presser foot knob (See illustration). This will release pressure of presser foot. To increase pressure, push down inner pin until suitable pressure is obtained.

For ordinary sewing, the inner pin should be about half way down. When sewing multiple thickness or heavy material, reduce the pressure. Increase it when sewing sheer fabrics.

Insufficient pressure may cause skipped stitches or difficulty in guiding the fabric. If feed dog or presser foot marks appear on the fabric, reduce the pressure.

FEED DOG CONTROL

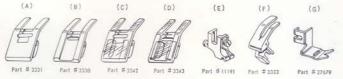
The feed dog control knob is situated on the right front of machine bedplate. When knob is turned to the left, feed dog drops and does not pull material. This allows the operator freedom of movement of material, as for darning. For regular sewing, turn knob to the right, "U" (Feed dog up).

DUAL PURPOSE NEEDLE PLATE

The dual purpose needle plate provides a small round needle hole (A) for straight stitching and a wide oval hole (B) for zigzag and decorative stitching on the center plate (C).

To reverse center plate (C), remove hand hole cover plate, depress slightly and move lever (D) to right; this releases center plate so it can be removed. Reverse and reposition center plate, locking it into place by moving lever (D) to left.

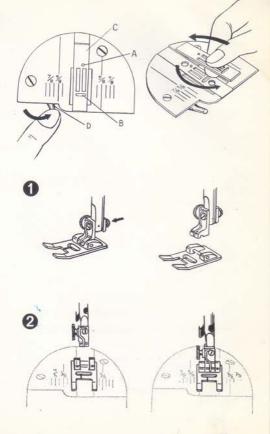
CHANGING THE ATTACHMENT FOOT



Four metal feet: standard zigzag foot (A), satin stitch foot (B), straight stitch foot (F), gathering foot (G), and two clear plastic feet: zigzag foot (C), satin stitch foot (D), are provided with the machine.

To replace foot (A - D): Raise presser bar by raising the presser foot lever, push the release button on back of clamping shank (E) and the foot is released (See illustration 1), place the desired foot on the needle plate aligning the needle holes (See illustration 2) and lower the presser bar by dropping the presser foot lever. The clamping shank will snap on the foot. The presser foot knob should be down for maximum pressure when attaching these feet.

The straight stitch foot (F), gathering foot (G) and various other attachment feet available are fastened to the presser bar. To attach these feet: raise the presser bar, loosen the presser foot screw, replace clamping shank (E) with the desired foot and tighten the presser foot screw securely with the large screw driver.



ADJUSTING TENSIONS



Fig. 1

A perfect stitch will have threads locked between the two layers of fabric with no loops on top or bottom. (Refer to page 38)

PROBLEM

REMEDY

Upper thread too tight



Fig. 2



Decrease Tension



Upper thread too loose

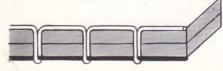


Fig. 3



Increase Tension



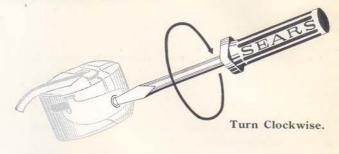
When stitching is unsatisfactory as in figures 2 and 3, adjust the upper thread tension. Lower thread tension requires adjustment less frequently than the upper thread tension.

When stitch is satisfactory, as in figure 1 and seam is badly puckered, the cause may be tight tensions and both upper and lower may be adjusted. (See page 38)

When adjusting the tension on the bobbin case, make <u>slight</u> adjustments with a screwdriver. (See page 38)

It is necessary to reduce the upper thread tension somewhat when doing decorative stitching. As the stitch width is increased, the tension should be decreased. (See page 17)

INCREASE TENSION



DECREASE TENSION



INSERTING AND REMOVING THE MATERIAL

For all kinds of sewing, consult chart page 5.

Before placing the material on the machine see that:

- *The presser foot and needle clamp screws are both tight.
- *The sizes of needle and thread suit the kind of work to be done.
- *The needle and take-up lever are at their highest position.
- *The tensions have been properly adjusted.
- *The ends of the threads have been drawn about 4 inches to the rear of the machine.
- *The feed dogs are up.
- * Stitch length and width controls are set at desired settings.

Experiment by sewing on the fabric to be used to determine tension adjustment and correct stitch settings.

Place material under the presser foot, insert the needle into the material by turning the hand wheel toward you, lower presser foot and start sewing. To facilitate placement of heavy fabrics under the presser foot, the presser foot lever can be raised beyond the normal "up" position.

To remove the work, first turn hand wheel toward you until needle is at its highest position, then raise the presser foot, draw material to the rear and cut off excess thread with the thread cutter located on the presser bar.

IMPORTANT: Always turn the hand wheel toward you! When machine is not being used, place a piece of material over the feed dog and lower the presser foot. Always have fabric under the presser foot when operating the machine. Operating threaded machine without fabric will cause it to jam by forcing thread into the shuttle. See pages 32 & 33.

SETTING STITCH LENGTH

Turn stitch length control knob to the desired point between 0 and 4. The red mark indicates the setting for a satin stitch. This will vary slightly depending upon the type of material to be sewn. The 4 setting is the longest stitch. The size of the stitch selected will depend on the fabric sewn.

STRAIGHT STITCHING

Special attention was given to the straight stitching performance of this sewing machine when it was designed. You can achieve excellent straight stitching for any sewing task by carefully following the instructions below: Remove disc from machine. Attach straight stitch foot. Set dual purpose needle plate for straight stitching.

Set stitch width control at 0. Set stitch length control as desired.

REVERSE STITCHING

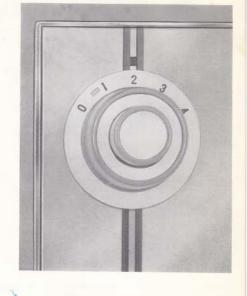
Push button when reverse stitching is required. Reverse stitching, often called back tacking is used for reinforcing and finishing all seams.

TURNING A CORNER

Stop sewing machine with needle in fabric. Raise presser foot. Turn fabric. Lower presser foot and continue stitching.

BASTING

For accomplishing quicker, more even and firmer basting, we suggest you regulate the machine in the following manner; Set stitch length at No. 4 for the longest possible stitch. Basting is easily removed by pulling bottom thread. When basting very sheer fabrics, use a paper backing.



FASTENING A SEAM

Be sure both threads are drawn back under the presser foot. Lower needle into fabric about ½ inch from beginning of seam. Push reverse button for reverse stitching. Stitch in reverse until needle reaches beginning of seam. Release button for forward stitching and complete seam. When you reach the end, push reverse button and sew back over ½ inch of completed seam.

ZIGZAG CONTROL

SETTING STITCH WIDTH

Insert disc \$1. Turn the stitch width knob to the desired setting between 0 and 4 on the knob. Zigzag stitch width increases from 1 to 4. Straight stitching is done with stitch width control on 0 setting and by removal of pattern disc.

Be sure the dual purpose needle plate is set properly (See page 11).

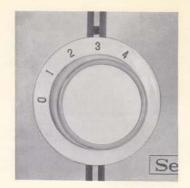
When sewing with the double needle the stitch width control must not be advanced beyond $2\frac{1}{2}$ setting.

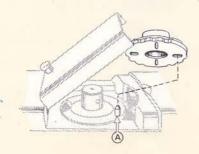
INSERTING PATTERN DISC

- Turn handwheel so that the needle is in its highest position.
- 2. Pull pattern disc shaft cover open.
- 3. Grasp pattern disc and slip disc onto the shaft. Make sure the retaining pin (A) enters hole in disc. To start a pattern at the beginning, align the engraved dot on the disc with the cam follower (B). To do this

do start a pattern at the beginning, align the engraved dot on the disc with the cam follower ®. To do this slip the disc onto the shaft so the engraved dot is at or as near (counterclockwise) the cam follower as possible. If the engraved dot is not aligned with the cam follower, turn the hand wheel toward you until the dot is aligned. (If the machine is threaded, be sure to place a scrap of fabric under the presser foot).

To remove pattern disc, follow steps 1 and 2, grasp disc and pull from shaft.



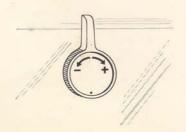




DECORATIVE STITCHING

This machine enables you to sew beautiful decorative and embroidery stitches by means of various discs supplied with your machine. The movements of the needle are controlled by the disc. Basic decorative stitches are made with the satin stitch foot, stitch width at 4 and stitch length at the red marking on the dial. Stitch length will vary slightly depending upon the type of material to be sewn. Pattern may be changed by using any other length or width. All patterns also can be made with double needle. See page 29. When using the disc numbers 21, 22, 23, and 24, the stitch length knob should be set at 4. Disc number 21 also makes the stretch stitch when it is used as directed in the instructions for Sewing on Stretch Fabrics. See page 25.

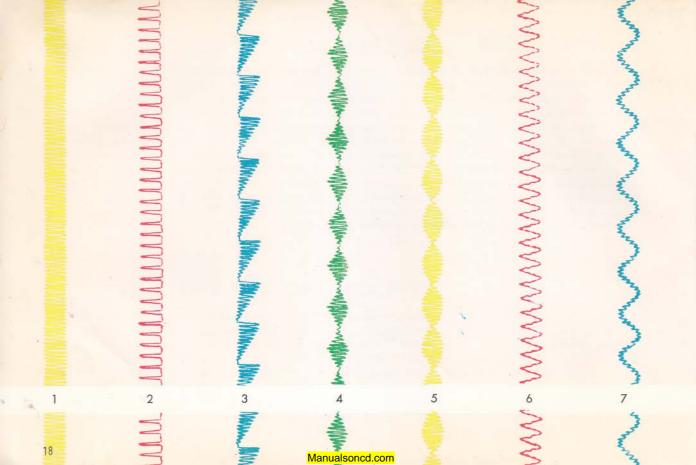
It is necessary to reduce the upper thread tension somewhat for decorative stitching. As the stitch width is increased, the tension should be decreased. This will prevent the material from puckering and will prevent the bobbin thread from coming up on the top of the fabric.

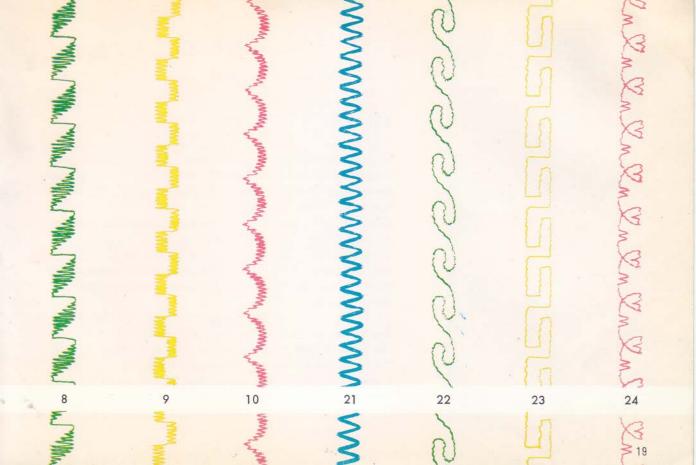


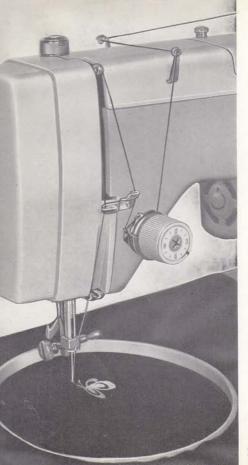
SEWING WITH REVERSE PATTERN DISC

Your machine is provided with four reverse pattern discs, disc numbers 21, 22, 23, and 24. When using these pattern discs, the stitch length knob should be set at 4. The reverse stitch length control should be in the upright position for most materials.

Depending upon the type of fabric used, this control may need adjusting. Turn the control slightly to the right or to the left as required to obtain the patterns illustrated on page 19. Practice on an extra piece of fabric to be used.







MENDING

DARNING

Stitch width Feed dog control

Left

Remove presser foot. Stretch fabric between embroidery hoops and place under needle. Draw the bobbin thread up through fabric by holding the upper thread and taking one stitch at the spot where you wish to begin darning. Lower presser bar. Start sewing at a medium machine speed. Move the fabric back and forth with a steady rhythm to cover the darning area. Then turn the fabric and sew another layer of stitching at right angles to the first. Move the fabric fast for long stitches, slowly for short stitches.

If you wish to darn without using an embroidery hoop, leave the presser foot attached, move feed dog control to the left, and push down outer ring of presser foot knob, thereby the pressure on the presser foot is released. Then proceed as above, stretching fabric tightly between hands.

BUTTONS Use disc #1

Align two holes of button with slot of presser foot and lower foot to hold button securely. Drop feed dog. Turn hand wheel by hand until needle point is just above button. Adjust stitch width so that needle will align with a hole of button. Turn hand wheel again by hand so that needle goes into second hole, readjust stitch width if necessary. Stitch a number of times, turning hand wheel manually. Finish with an extra 2 inches of thread, draw thread to reverse side and tie securely.

If using a 4 hole button repeat the above procedure.

NOTE: To make a small thread shank when sewing on a flat button, place a straight pin or needle between the holes of the button.

STRAIGHT OR THREE-CORNERED TEAR

Stitch width 3-4 Stitch length at red mark Pattern disc #6

Position tear under needle and stitch along the straight tear catching sides of material. When mending a three cornered tear, stitch from each end to center.



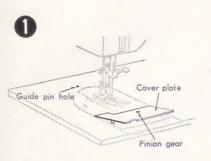


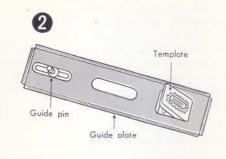


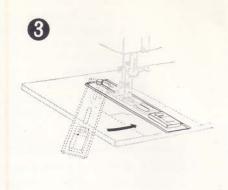
BUTTONHOLES

Use disc # 0
Stitch width knob about 23

Feed dog control - Left
Cover plate for buttonholes



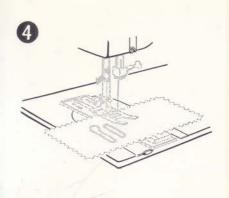




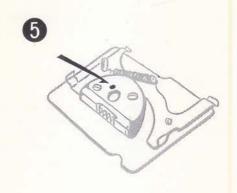
Remove regular cover plate and insert buttonhole cover plate. Select desired template and snap into guide plate.

Pull guide plate all the way forward so that guide pin is at S. This will enable you to start at one end of the buttonhole. Screw guide pin on guide plate into guide pin hole on machine bed.

Drop guide plate into place with template fitting over the pinion gear.



Pick up bobbin thread through guide plate and draw threads toward back. Place material on the guide plate. Drop presser foot and start sewing. Buttonhole will be formed. The buttonhole size and shape is not influenced by the stitch length control so it may be set on any position.



An occasional drop of oil on the oiling hole provided on the back of the buttonhole cover plate will provide smooth operation of your buttonhole maker.

HINTS FOR PERFECT BUTTONHOLES

Mark the position of each buttonhole on the garment with chalk or a line of basting.

Loosely woven fabrics and fabrics that stretch easily such as jersey should have an interfacing of a firm fabric. Use cambric or taffeta between woolens and rayons-organdy or lawn between light weight and sheer fabrics.

Use buttonhole scissors or buttonhole cutter to cut buttonhole open.

Always make a practice buttonhole on a piece of the fabric to be used in the garment.

A wider stitch width may be desirable on heavy weight fabrics.







APPLIQUE

Use disc #1

Baste cutout applique to fabric. Set stitch width 2 to 4. Set stitch length at the red marking. Zigzag stitch around applique completely covering the raw edge.

SEWING ON LACE

Use disc #1

Set stitch width to 2. Set stitch length to 2 or 3. Place fabric under the presser foot and position lace $\frac{1}{4}$ inch from edge of fabric. Position fabric and lace so that right stitch catches left edge of lace. Continue stitching so that edge of lace is overcast.

GATHERING

Attach gathering foot. (See page 11). Set machine for straight stitching and test gathers on a scrap of the same fabric you plan to use. Fullness will depend largely on thread tension and length of stitch. For slight fullness, tighten thread tension and set stitch length for ordinary sewing. For greater fullness, lengthen stitch and keep tight thread tension. Fullness will vary with different fabrics.

OVERCASTING

Use disc #1

Set stitch width to 4. Set stitch length to about 3. Zigzag stitch around raw edge of fabric to completely cover the edge.

WRITING AND MONOGRAMMING

Use disc \$1

Free hand Stitch width 0 to 4 Feed dog control Left

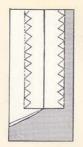
Draw initials or words to be sewn on fabric and fit fabric into embroidery hoops. Writing is done with either zigzag or straight stitching. Remove presser foot. Set stitch width for straight or zigzag stitches as desired. Slip hoop and fabric under the needle, lower presser bar and take one stitch to raise bobbin thread through fabric. Using a medium speed, stitch along marked outline, guiding fabric carefully by hands.

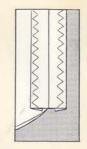
SEWING ON STRETCH FABRICS

Use disc #21

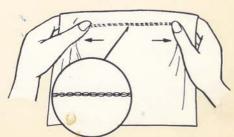
Stitch width 0 Stitch length 4

Use with knitted fabrics and stretch fabrics. Sew as you do straight stitching. Machine will make triple lock stitches back and forth. The seam can be pressed open without breaking thread. Refer to "Sewing with Reverse Pattern Disc" instructions on page 17.







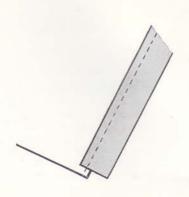


HEMS

0

2

BLIND STITCH HEM

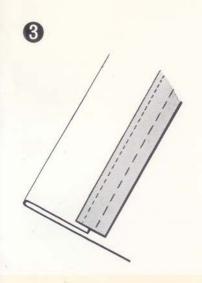


 Disc
 # 2

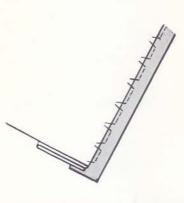
 Stitch width
 2 - 3

 Stitch length
 2 - 4

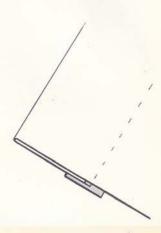
 Prepare the hem with a turned and edgestitched finish, or Apply seam tape along the raw edge with either straight or zigzag stitching.







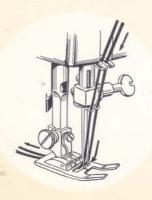
6



Turn hem and baste 1/8
inch from the edge of the
seam tape using longest
stitch on sewing machine.

 Fold garment back along basting line and stitch along garment fold using disc #2. Remove basting and press hem. The basting step may be eliminated in a straight hem.





DOUBLE NEEDLE

SETTING THE DOUBLE NEEDLE

Raise the needle bar to its highest position and loosen needle clamp screw. Hold double needle assembly with flat side away from you. Slip the needle as far as it will go into needle clamp, and tighten the screw.

THREADING THE DOUBLE NEEDLE

Place a spool of thread on each spool pin. Draw both threads through upper thread guides. Pass a thread between each set of tension discs of the thread tension assembly. Continue threading as you would for single needle sewing except where double thread guides are provided. Draw one thread through each side of the double thread guides and through each needle from front to back. Pull several inches of thread through. (See illustrations). Thread bobbin and pick up bobbin thread as for single needle sewing.

THREAD SELECTION

Use only mercerized sewing thread size 50 or finer. The same size thread is recommended for both upper and lower threading.

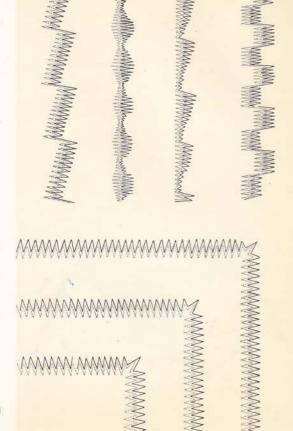
DOUBLE NEEDLE

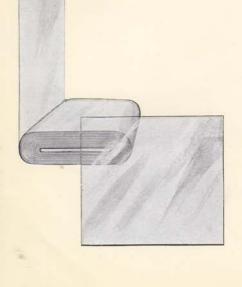
STITCHING

All decorative patterns are possible with double needle. Before starting any stitching operation, check needle drop by turning the handwheel manually. Needle should enter fabric without touching the presser foot or needle plate. The stitch width control must not be advanced beyond $2\frac{1}{2}$ setting.

TURNING A CORNER

To turn a square corner when stitching with a double needle, stop stitching with the longer needle tip just piercing the fabric. Raise the presser foot, shift fabric half the turn, lower presser foot and take one stitch. Raise the presser foot again, complete the turn, and begin stitching in the new direction.





SYNTHETICS

Your KENMORE will sew all the new fabrics of synthetic fiber, such as nylon, *Orlon, **Dacron, rayon, acetate, blends of these, and combinations of synthetic and natural fibers. When stitching a fabric of blended or combined fibers, handle it as you would a material of the fiber present in the largest percentage. For example, a fabric woven of 60% Orlon and 40% silk should be handled as one made entirely of Orlon.

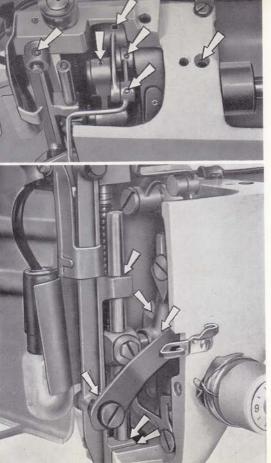
When stitching a fabric that is over 50% synthetic fiber, remember:

- a. Select patterns of the loose fitting type with cap or kimono sleeves, because most synthetic fiber fabrics cannot be eased with steam pressing, and are not absorbent.
- b. Use a synthetic thread.
- c. Use a fine needle as recommended in chart on page 5.
- d. Wind the bobbin in the usual way, but do not pass thread between tension discs. Guide thread by hand for a smoothly wound bobbin.
- e. Choose the stitch length that gives the most satisfactory seam.
- f. Check thread tensions by sewing on a double thickness of the fabric to be used. Usually the upper thread tension must be loosened. Sometimes both bobbin and upper thread tensions must be loosened (Page 12, 13).

SEWING ON PLASTIC FILMS

Set the machine with normal thread tensions and a large size stitch. Use a fine needle and mercerized thread. Hold plastic pieces together with cellophane tape or paper clips rather than pins. Sew corners slightly rounded rather than square.

*Trademark for Dupont's Acrylic fiber. **Trademark for Dupont's polyester fiber.



REPLACEMENT OF THE BELT

Push motor against machine and remove belt from motor pulley. Let motor down gently. Pull belt out over hand wheel. Install new belt reversing the above procedure.

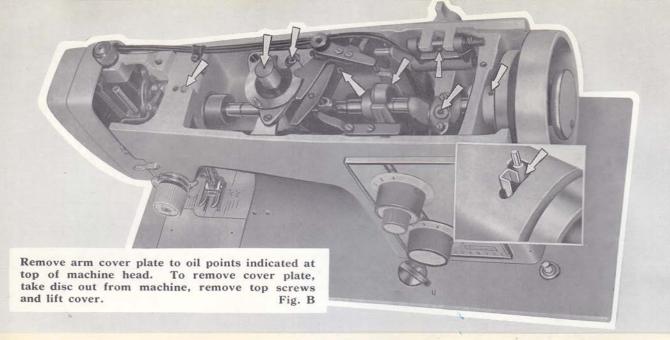
CLEANING AND OILING

Keep the moving parts free from dust and thread for quiet and efficient operation. Cleaning should be done with a small brush.

When machine runs hard or makes excessive noise, place a drop of KENMORE sewing machine oil at the points indicated in figs. A. B. & C.

Swing hinged face cover plate open to oil points indicated at end of machine head.

Fig. A

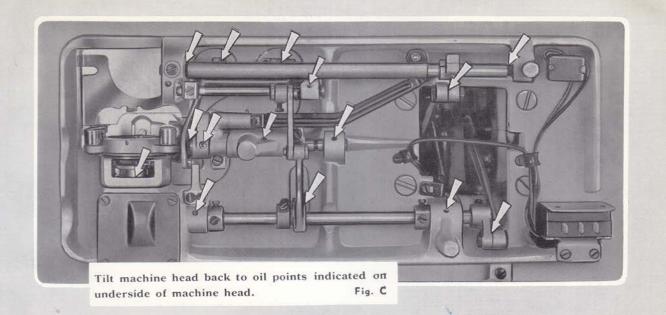


It may be necessary to clean the shuttle area occasionally.

- 1. Raise the needle bar to its highest point and remove bobbin case.
- Push levers sideways from the shuttle assembly and lift shuttle race cover and shuttle out by the center pin.
- Clean the shuttle race of any lint or small particles of thread with a small brush.
- 4. Put a drop of oil on the center pin of the shuttle and on shuttle race (see arrows).



Shuttle Assembly





To reassemble, hold shuttle by center pin and fit carefully into assembly opposite the shuttle driver. Slip shuttle race cover into place. Snap the levers into position. Occasionally, remove the needle plate and clean feed dog with a soft brush.

WHAT TO DO

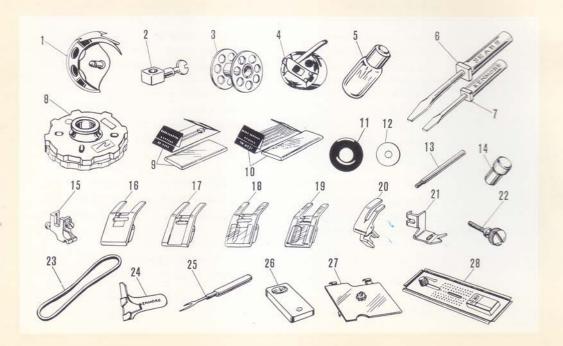
PROBLEM	PROBABLE CAUSE	CORRECTION		
	Incorrect size needle.	Choose correct size needle for thread and fabric (page 5).		
	Improper threading.	Rethread machine (page 9).		
	Loose upper thread tension.	Tighten upper thread tension (page 12).		
Irregular	Pulling fabric.	Do not pull fabric; guide it gently.		
Stitches	Light pressure on presser foot.	Increase pressure on presser foot (page 10).		
	Loose presser foot.	Reset presser foot (page 11).		
	Unevenly wound bobbin.	Rewind bobbin (page 7).		
	Pulling fabric.	Do not pull fabric; guide it gently.		
Breaking	Incorrect size needle.	Choose correct size needle for thread and fabric (page 5).		
Needle	Incorrect setting of needle.	Reset needle (page 5).		
	Loose presser foot.	Reset presser foot (page 11).		
Bunching of	Upper and lower threads not drawn back under presser foot.	Draw both threads back under presser foot (page 10).		
Thread	Feed dog down.	Raise feed dog (page 10).		
	Incorrect thread tension(s).	Reset thread tension(s) (pages 12, 13).		
	Light pressure on presser foot.	Increase pressure on presser foot (page 10).		
Puckering	Using two different sizes or kinds of thread.	Upper thread and bobbin thread should be same size and kind.		
	Bent or blunt needle.	Insert new needle (page 5).		
	Loose presser foot.	Reset presser foot (page 11).		
	Fabric too sheer or too soft.	Use underlay of tissue paper or tarleton when stitching.		

WHAT TO DO

PROBLEM	PROBABLE CAUSE	CORRECTION		
	Incorrect size needle.	Choose correct size needle for thread and fabric (page 5).		
Skipping Stitches	Bent or blunt needle.	Insert new needle (page 5).		
	Incorrect setting of needle.	Reset needle (page 5).		
	Tight upper thread tension.	Loosen upper thread tension (page 12).		
	Light pressure on presser foot.	Increase pressure on presser foot (page 10).		
	Starting to stitch too fast.	Start to stitch at a medium speed.		
Breaking Upper Thread	Improper threading.	Rethread machine (page 9).		
	Tight upper thread tension.	Loosen upper thread tension (page 12).		
	Incorrect size needle.	Choose correct size needle for thread and fabric (page 5).		
	Sharp eye in needle.	Insert new needle (page 5).		
	Improper bobbin case threading.	Check bobbin case threading (page 8).		
Breaking Bobbin Thread	Tight bobbin thread tension.	Loosen bobbin thread tension (page 13).		
	Lint in bobbin case or shuttle.	Clean bobbin case and shuttle (pages 32, 33).		
Υ	Feed dog down.	Raise feed dog (page 10).		
Fabric not Moving	Light pressure on presser foot.	Increase pressure on presser foot (page 10).		
	Threads knotted under fabric.	Place both threads back under presser foot before beginning to stitch.		
Machine Jamming (Knocking Noise)	Thread caught in shuttle.	Disassemble and clean shuttle (pages 32, 33).		

PARTS LIST

All parts listed here may be ordered through your nearest Sears or Simpsons-Sears retail store, catalog sales office or mail order house.



When ordering these parts, please be sure to mention the following references:

- 1. Model & serial numbers of machine shown on the nomenclature plate. See page 2.
- 2. Parts number(s) and description(s) here.

When ordering by mail, prices will be furnished on request, or parts will be shipped at prevailing prices and you will be billed accordingly.

Ref. #	Parts #	Description	Ref. #	Parts #	Description
1	11082	Shuttle hook	12	2273	Nylon disc
2	26929	Needle clamp	13	8286	Thread spool pin
3	6502	Bobbin	14	1222	Bobbin winder tension disc
4	6510	Bobbin case	15	11191	Clamping shank assy
5	6797	Light bulb	16	3331	Standard zigzag foot
2 3 4 5 6 7 8	3015	Large screw driver	17	3330	Satin stitch foot
7	3016	Small screw driver	18	3342	Plastic zigzag foot
8	26865	Pattern disc # 0	19	3343	Plastic satin stitch foot
	26841	Pattern disc # 1	20	3333	Straight stitch foot
	26842	Pattern disc # 2	21	27679	Gathering foot
	26843	Pattern disc #3	22	135	Presser foot thumb screw
	26844	Pattern disc #4	23	6902	Motor rubber belt
	26845	Pattern disc #5	24	6864	Needle threader
	26846	Pattern disc #6	25	6861	Buttonhole opener
	26847	Pattern disc #7	26	8939	1 1-1/16" Keyhole template
	26848	Pattern disc #8		8940	2 1-1/16" Regular template
	26849	Pattern disc #9		8941	3 13/16" Reguler template
	26850	Pattern disc #10		8942	4 5/8" Regular template
	26861	Pattern disc #21		1293	5 5/16" Regular template &
	26862	Pattern disc #22			eyelet template
	26863	Pattern disc #23		9021	6 15/16" Regular template
	26864	Pattern disc #24		9022	7 1/2" Regular template
9	6714	Double needle		9023	8 3/8" Regular template
10	6702	Pack of assorted needles		9020	9 5/8" Keyhole template
11	1939	Bobbin winder rubber ring	27	13901	Buttonhole cover plate
			28	13530	Buttonhole guide plate

ADJUSTING YOUR SEWING MACHINE FOR GOOD STITCHES

When your sewing machine does not sew a properly locked stitch, check the following:

- Insert a new needle of the correct size for the thread and fabric you are using. Consult chart on page 5 for needle size.
- 2. The upper and bobbin thread should be matched in size and type.
- 3. Check threading carefully. See page 9.
- Check the thread tension balance. Use mercerized thread, and a correct size needle
 for the fabric you are using. Do not try this test with synthetic thread as it will
 not break.

Begin with a full bobbin, properly threaded into the case. Set the stitch length at about 12 stitches per inch. Fold a 6'' square of your fabric in half diagonally, forming a triangle. Make a line of stitching $\frac{1}{2}''$ from fold.

- a. If seam is puckered both tensions are too tight.
- b. If the bottom thread lays on the fabric-tighten upper thread tension, and repeat test. See page 12, Figure 3.
- c. If the top thread lays on the fabric-loosen upper thread tension, and repeat test. See page 12, Figure 2.

Grasp the stitching and pull with a snap to make threads break.

- a. If both threads break-tensions are balanced.
- b. If neither thread breaks both tensions are too loose,
- c. If upper thread breaks loosen upper tension.
- d. If lower thread breaks tighten upper tension.

Both threads do not have to break at the same place, but they should break on the same snap.

Bobbin tension may be reset by the following procedure. Start with a loose bobbin thread tension. Tighten the spring screw gradually until bobbin case and full bobbin can be gently lifted from your hand by the end of the bobbin thread.

MEMO

MEMO



WE SERVICE WHAT WE SELL NO MATTER WHERE YOU LIVE IN THE U.S.A.

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If and when you need service, please be sure to mention the number shown on your nomenclature plate. See Page 2.

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